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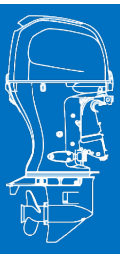


Troubleshooting Guide

BF115JK1, BF135DK1, BF150DK1

Contents

This troubleshooting guide is for reference purposes and supplements the owner's manual that came with your outboard motor. Always refer to the owner's manual for clarification and more detail on the processes shown in this document.
Photos in this guide may not match your actual model.
It is recommended that you download this PDF and store it in your device.

Web instruction manual, official owner's manual PDF available at:
https://www.hondappsv.com/

Warning System Activation

Engine Oil Pressure Warning System

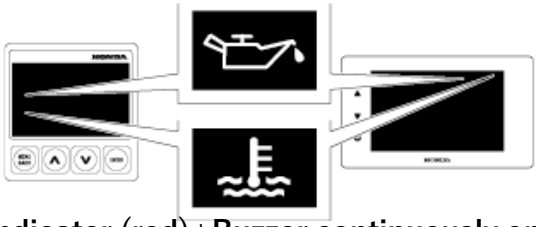
Informs low engine oil pressure with indicator and buzzer sounds.

Overheat Warning System

Informs engine overheats with indicator and buzzer sounds.

Multi-function Display

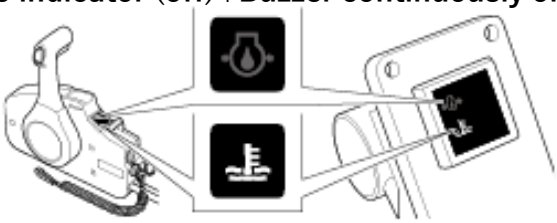
Low oil pressure indicator (red)+Buzzer continuously on



Overheat indicator (red)+Buzzer continuously on

R1, R2, R3 types

Oil pressure indicator (off)+Buzzer continuously on



Overheat indicator (red)+Buzzer continuously on

The power reduction system decreases the engine speed to protect the engine until the malfunction is corrected.
When one of the two systems of the remote control sensor is faulty, the power reduction system does not decrease the engine speed.
If the engine overheats, the engine will stop in 20 seconds after the engine protection system limits engine speed.

PGM-FI Warning System

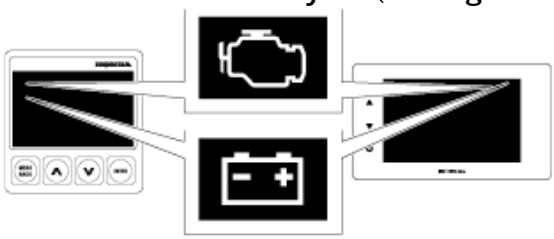
Informs PGM-FI malfunction with indicator and buzzer sounds.

ACG Warning System

Informs AC generator malfunction with indicator and buzzer sounds.

Multi-function Display

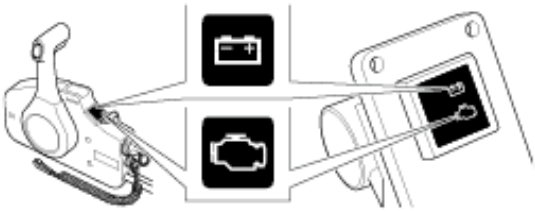
PGM-FI Indicator (red)
+Buzzer continuously on (at long intervals)



ACG Indicator (red)
+Buzzer continuously on (at long intervals)

R1, R2, R3 types

PGM-FI Indicator (red)
+Buzzer continuously on (at long intervals)



ACG Indicator (red)
+Buzzer continuously on (at long intervals)

Water Separator Warning System

Informs water contamination in the water separator with buzzer sounding (at short intervals).

Warning Level

Warning level is shown as the warning system activates.

- Warning Level 1: an errors that require special attention
- Warning Level 2: except Level 1 warnings

Power reduction

This outboard motor is equipped with the power reduction system which activates when the outboard motor has a serious problem.
The power reduction system decreases the engine speed to protect the engine until the malfunction is corrected.
When one of the two systems of the remote control sensor is faulty, the power reduction system does not decrease the engine speed.

Battey switch notification

This function alerts the operator that the battery switch is OFF and must be turned to the ON position. If the battery switch is OFF, a buzzer will sound three times during the following situations.

- When starting the engine
- When using the power trim/tilt switch
- When turning the battery switch OFF while the ignition switch or power switch is ON

Solution

Oil pressure warning system

1. Stop the engine immediately and check the engine oil level.
2. If the oil is up to the recommended level, restart the engine. If the oil pressure warning system stops after 30 seconds, the system is normal.
3. If the oil pressure warning system stays activated after 30 seconds, return to the closest boat landing and contact your closest authorized Honda outboard motor dealer.

Overheat warning system

1. Return the remote control lever to the NEUTRAL position immediately. Check to see if water is flowing out of the cooling water check hole
2. If water is flowing out of the cooling water check hole, continue idling for 30 seconds. If the overheat warning system stops after 30 seconds the system is normal.
3. If the overheat warning system stays activated, stop the engine. Tilt up the outboard motor and check the water intakes for obstructions. If there are no obstructions at the water intakes, return to the closest boat landing and contact your closest authorized Honda outboard motor dealer.

AGC warning system

Check the battery. If the battery is OK, consult with an authorized Honda outboard motor dealer.

PGM-FI warning system

Consult with an authorized Honda outboard motor dealer.

When the water separator buzzer sounds

Check the water separator for water contamination.
If water has accumulated, clean it out.
Please refer to the Owner's manual or Maintenance page on our web site.

https://www.hondappsv.com/

If the outboard motor was submerged

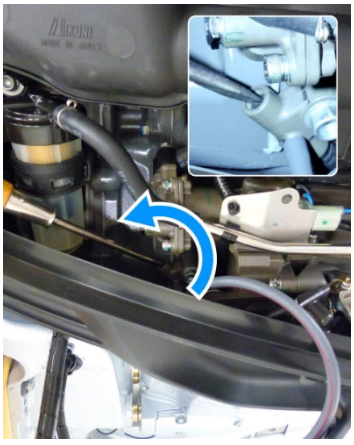
A submerged outboard motor must be serviced immediately after it is recovered from the water in order to minimize corrosion.
As soon as possible, take the outboard motor to a Honda outboard motor dealer for inspection and service.

Step 1 – Cleaning

1. Rinse the outboard motor with fresh water to remove salt water, sand, mud, etc. Remove the engine cover and rinse the inside the engine cover as well.

2. Unhook the drain tube from the clip on the engine.

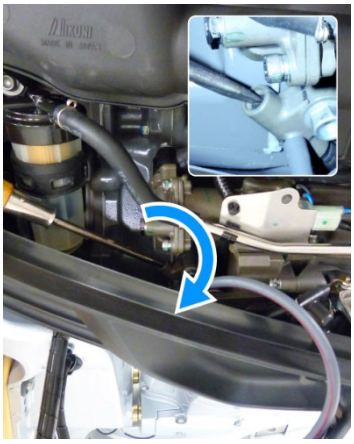
Step 2 – Draining fuel



3. Loosen the vapor separator drain bolt. As the fuel flows out, tilt up the outboard motor.

4. Place a drain pan under the drain tube. Catch the petrol in the drain pan.

5. Tilt the outboard motor down to the vertical position and allow the vapor separator to finish draining.



6. After draining, tighten the drain bolt.

7. Clamp the drain tube to the clip on the engine.

Step 3 – Changing the engine oil

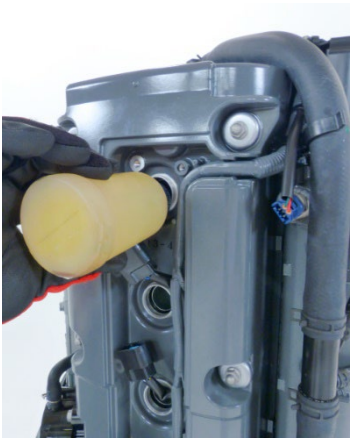
Refer to the owner's manual or
https://www.hondappsv.com/

Step 4 – Lubricating the engine cylinder

8. Remove the emergency stop switch clip.

9. Remove the spark plug.

10. Operate the starter to expel water from the engine cylinder.



11. Put a teaspoon of engine oil into each spark plug hole to lubricate the inside of the cylinders. Reinstall the spark plugs.

12. Install the engine cover and lock the latch securely.

13. Attempt to start the engine.

- If the engine fails to start, remove the spark plugs, clean and dry the electrodes, then reinstall the spark plugs and attempt to start the engine again.
- If there was water in the engine crankcase, or the used engine oil showed signs of water contamination, then a second engine oil change should be performed after running the engine for 1/2 hour.
- If the engine starts, and no mechanical damage is evident, continue to run the engine for 1/2 hour or longer (be sure the water level is at least 100 mm (4 in) above the anti-cavitation plate).

14. Install the parts in reverse order of removal.

Emergency gear shifting (DBW types)

If the gear cannot be shifted, try following procedure to shift the gear manually. If the shift operation can be performed, return to your base at possible engine speed.

1. Set the shift lever or remote control lever to the neutral position.

2. Remove the engine cover.

3. Insert the phillips screwdriver with the grip of the tool kit into the hole of the shift pivot.

4. Shift gear into neutral by moving the shaft.
- Grasp the shaft of the inserted Phillips screwdriver close to the shift pivot.
  Operate in a stable posture that makes it easy to apply force.

5. Start the engine.

6. Shift the gear into F(Forward) or R(Reverse) by moving the shaft.